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APPLICATION NO.	ICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,898	09/897,898 07/05/2001		Harm M. Deckers	034547-0104	3117
22428	7590	05/13/2004	EXAMINER		INER
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DATE MAILED: 05/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/897,898	DECKERS ET AL.
		Examiner	Art Unit
		Yong D Pak	1652
The MAILING DATE of this co	mmunication app	ears on the cover sheet with t	he correspondence address
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of t - If the period for reply specified above is less that - If NO period for reply is specified above, the max - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.3	MMUNICATION. rovisions of 37 CFR 1.13 his communication. n thirty (30) days, a reply kimum statutory period w for reply will, by statute, months after the mailing	6(a). In no event, however, may a reply within the statutory minimum of thirty (3/ill apply and will expire SIX (6) MONTHS cause the application to become ABANI	be timely filed O) days will be considered timely. If from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status			
 Responsive to communication This action is FINAL. Since this application is in corclosed in accordance with the 	2b)⊡ This idition for allowan	action is non-final. ce except for formal matters	•
Disposition of Claims			
4)	is/are withdraw ejected. d to.	rn from consideration.	
Application Papers			
9) The specification is objected to 10) The drawing(s) filed on Applicant may not request that ar Replacement drawing sheet(s) in 11) The oath or declaration is objection.	is/are: a) ☐ acce by objection to the d cluding the correction	pted or b) objected to by trawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
	e of: riority documents riority documents opies of the priori rnational Bureau	have been received. have been received in Applity documents have been received (PCT Rule 17.2(a)).	cation No eived in this National Stage
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Re Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date 2/6/04. 		4) Interview Sumr Paper No(s)/Ma 5) Notice of Inform 6) Other:	

Page 2

Art Unit: 1652

DETAILED ACTION

Claims 14-18 and 29 are pending.

Priority

As previously stated, Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The second application must be an application for a patent for an invention which is also disclosed in the first application (the parent or provisional application); the disclosure of the invention in the parent application and in the second application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See Transco Products, Inc. v. Performance Contracting, Inc., 38 F.3d 551, 32 USPQ 2d 1077 (Fed. Cir. 1994).

The parent application, 09/577,147, does not disclose a method of preparing an emulsion formulation comprising a thioredoxin or thioredoxin reductase, which is claimed in the instant application.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on February 6, 2004 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Page 3

Response to Arguments

Applicant's arguments filed on December 24, 2003 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 103

Claims 14-15, 18 and 29 remain rejected under 35 U.S.C. 103(a) as being unpatentable over McCoy et al. in view of Loer et al.

Applicants argue that McCoy only teaches fusion proteins comprising a thioredoxin to increase production, activity, stability and/or solubility of heterologous proteins and does not provide any motivation to make an emulsion formulation comprising a thioredoxin. Applicants also argue that Loer does not disclose or suggest preparation of a thioredoxin containing emulsions.

The examiner disagrees. The motivation of combining the teachings of McCoy and Loer is to increase production, activity, stability and/or solubility of an oil body protein by making a fusion protein comprising said oil body protein and a thioredoxin. Preparing an emulsion of this fusion protein would have been an obvious step because it is well known in the art that oil body proteins are prepared by emulsifying the protein. Therefore, it would have been obvious to one having ordinary skill in the art to make a fusion protein comprising a thioredoxin and an oil body protein and then to make an emulsion comprising the fusion protein. One of ordinary skill in the art would have had a Art Unit: 1652

reasonable expectation of success since fusion proteins are made routinely in the art and preparation of oil bodies by forming emulsions are also practiced routinely in the art.

Claims 16-17 remain rejected under 35 U.S.C. 103(a) as being unpatentable over McCoy et al. in view of Loer et al. as applied to claims 14-15, 18 and 29 above, and further in view of Hildebrand et al.

The references of McCoy et al. and Loer et al. in combination teach a method of making a fusion protein comprising a thioreodixn and an oil body and emulsifying the product, as discussed above.

Hildebrand et al. (EP 0 550 162 A1 – form PTO-892) teach a method of expressing heterologous proteins in safflower cells (page 4).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the claimed invention was made to express the fusion protein in safflower cells. The motivation of expressing the fusion protein in safflower cells is to express the oil body protein in an oil-bearing crop. One of ordinary skill in the art would have had a reasonable expectation of success since expression of fusion proteins in plant cells such as safflower cells are performed routinely in the art.

No claims are allowed.

Art Unit: 1652

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong Pak whose telephone number is 571-272-0935. The examiner can normally be reached 6:30 A.M. to 5:00 P.M. Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

Yong D. Pak Patent Examiner

PONNATHAPU ACHUTAMURTHY SUPERVISORY PATENT EXAMINER TECHNOLOGY COLUTER 1600